## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

## **Listing of Claims:**

- 1-12. (Cancelled)
- 13. (Currently Amended) A method for reverse transcribing an RNA, that comprises:
- (a) providing a reverse transcription reaction mixture comprising said RNA, a primer, Mg+2, and a mutant thermoactive DNA polymerase, wherein said mutant DNA polymerase is characterized in that
- i) in its native form said DNA polymerase <u>comprises a polymerase</u> domain <u>comprising comprises</u> an amino acid sequence that is SEQ ID NO:1;
- ii) the amino acid at position 2 of said amino acid sequence is S or A and the amino acid at position 5 of said amino acid sequence is L or I; and
- iii) the amino acid at position 4 of said amino acid sequence is mutated in comparison to said native sequence to an amino acid other than E, A, G, or P; and
- (b) treating said reaction mixture at a temperature sufficient for said mutant DNA polymerase to initiate synthesis of an extension product of said primer to provide a cDNA molecule complementary to said RNA.
- 14. (Previously presented) The method of Claim 13, wherein said mutant DNA polymerase in its native form comprises an amino acid sequence that is SEQ ID NO:2, the amino acid at position 3 of said amino acid sequence is Q or G, and the amino acid at position 6 of said amino acid sequence is S or A.

- 15. (Currently Amended) The method of Claim 13, wherein said mutant DNA polymerase in its native form comprises a polymerase domain comprising an amino acid sequence that is SEQ ID NO:3.
- 16. (Currently Amended) The method of Claim 13, wherein said mutant DNA polymerase in its native form comprises a polymerase domain comprising an amino acid sequence that is SEQ ID NO:4, and the amino acid at position 3 is Q or G.

17-19. (Cancelled)

- 20. (Original) The method of Claim 13, wherein said mutant DNA polymerase is thermostable.
- 21. (Previously presented) The method of Claim 13, wherein said mutant DNA polymerase is a mutant form of a *Thermus* species DNA polymerase.
- 22. (Previously presented) The method of Claim 13, wherein said mutant DNA polymerase is a mutant form of *Thermus thermophilus* DNA polymerase or *Thermus aquaticus* DNA polymerase.
- 23. (Original) The method of Claim 13, wherein said temperature of said reaction mixture in step (b) is between 40°C and 80°C.
- 24. (Previously presented) The method of Claim 13, wherein said amino acid at position 4 of said amino acid sequence is mutated in comparison to said native sequence to an amino acid other than E, A, G, P, Q, or D.

25-26. (Cancelled)

- 27. (Original) A method for amplifying an RNA, that comprise:
- (a) reverse transcribing said RNA according to a method of Claim 13 to provide a cDNA;

- (b) amplifying said cDNA.
- 28. (Original) A method of Claim 27, wherein in step (b) said amplifying is carried out using a polymerase chain reaction.
- 29. (Currently Amended) A method for amplifying an RNA using a single-enzyme reverse transcription/amplification reaction, that comprises:
- (a) providing an amplification reaction mixture comprising said RNA, a pair of primers, a divalent cation, and a mutant thermostable DNA polymerase, wherein said mutant DNA polymerase is characterized in that
- i) in its native form said DNA polymerase comprises a polymerase domain comprising an amino acid sequence that is SEQ ID NO:1;
- ii) the amino acid at position 2 of said amino acid sequence is S or A and the amino acid at position 5 of said amino acid sequence is L or I; and
- iii) the amino acid at position 4 of said amino acid sequence is mutated in comparison to said native sequence to an amino acid other than E, A, G, or P; and
- (b) treating said reaction mixture at a temperature sufficient for said mutant DNA polymerase to initiate synthesis of an extension product of said primer to provide a cDNA molecule complementary to said RNA;
- (c) treating said reaction mixture at an appropriate temperature for said mutant DNA polymerase to initiate synthesis of an extension product of said second primer to provide a double-stranded cDNA molecule; and
- (d) amplifying said double-stranded cDNA molecule of step (c) by a polymerase chain reaction.

- 30. (Currently Amended) The method of Claim 29, wherein said mutant DNA polymerase in its native form comprises a polymerase domain comprising an amino acid sequence that is SEQ ID NO:2, the amino acid at position 3 of said amino acid sequence is Q or G, and the amino acid at position 6 of said amino acid sequence is S or A.
- 31. (Currently Amended) The method of Claim 29, wherein said mutant DNA polymerase in its native form comprises a polymerase domain comprising an amino acid sequence that is SEQ ID NO:3.
- 32. (Currently Amended) The method of Claim 29, wherein said mutant DNA polymerase in its native form comprises a polymerase domain comprising an amino acid sequence that is SEQ ID NO:4, and the amino acid at position 3 is Q or G.

## 33-35. (Cancelled)

- 36. (Original) The method of Claim 29, wherein said mutant DNA polymerase is thermostable.
- 37. (Previously presented) The method of Claim 29, wherein said mutant DNA polymerase is a mutant form of a *Thermus* species DNA polymerase.
- 38. (Previously presented) The method of Claim 29, wherein said mutant DNA polymerase is a mutant form of *Thermus thermophilus* DNA polymerase or *Thermus aquaticus* DNA polymerase.
- 39. (Original) The method of Claim 29, wherein said temperature of said reaction mixture in step(b) is between 40°C and 80°C.
- 40. (Original) The method of Claim 29, wherein said amino acid at position 4 of said amino acid sequence is mutated in comparison to said native sequence to an amino acid other than E, A, G, P, Q, or D.

- 41. (Currently Amended) A method for amplifying an RNA using a single-enzyme reverse transcription/amplification reaction, that comprises:
- (a) providing an amplification reaction mixture comprising said RNA, a pair of primers, Mg+2, and a mutant thermostable DNA polymerase, wherein said mutant DNA polymerase is characterized in that
- i) in its native form said DNA polymerase comprises a polymerase domain comprising an amino acid sequence that is SEQ ID NO: 1;
- ii) the amino acid at position 2 of said amino acid sequence is S or A and the amino acid at position 5 of said amino acid sequence is L or I; and
- iii) the amino acid at position 4 of said amino acid sequence is mutated in comparison to said native sequence to an amino acid other than E, A, G, or P; and
- (b) treating said reaction mixture at a temperature sufficient for said mutant DNA polymerase to initiate synthesis of an extension product of said primer to provide a cDNA molecule complementary to said RNA;
- (c) treating said reaction mixture at an appropriate temperature for said mutant DNA polymerase to initiate synthesis of an extension product of said second primer to provide a double-stranded cDNA molecule; and
- (d) amplifying said double-stranded cDNA molecule of step (c) by a polymerase chain reaction.
- 42. (Previously presented) The method of Claim 41, wherein said mutant DNA polymerase in its native form comprises an amino acid sequence that is SEQ ID NO:2, the amino acid at position 3 of said amino acid sequence is Q or G, and the amino acid at position 6 of said amino acid sequence is S or A.

- 43. (Currently Amended) The method of Claim 41, wherein said mutant DNA polymerase in its native form comprises a polymerase domain comprising an amino acid sequence that is SEQ ID NO:3.
- 44. (Previously presented) The method of Claim 41, wherein said mutant DNA polymerase in its native form comprises an amino acid sequence that is SEQ ID NO:4, and the amino acid at position 3 is Q or G.

45-47. (Cancelled)

- 48. (Original) The method of Claim 41, wherein said mutant DNA polymerase is thermostable.
- 49. (Previously presented) The method of Claim 41, wherein said mutant DNA polymerase is a mutant form of a *Thermus* species DNA polymerase.
- 50. (Previously presented) The method of Claim 41, wherein said mutant DNA polymerase is a mutant form of *Thermus thermophilus* DNA polymerase or *Thermus aquaticus* DNA polymerase.
- 51. (Original) The method of Claim 41, wherein said temperature of said reaction mixture in step (b) is between 40°C and 80°C.
- 52. (Original) The method of Claim 41, wherein said amino acid at position 4 of said amino acid sequence is mutated in comparison to said native sequence to an amino acid other than E, A, G, P, Q or D.

53-68. (Cancelled)